

Amendments to the Claims: This listing of claims will replace all prior versions, and listings, of claims in the application

Listing of Claims:

1. (Currently Amended) A system for monitoring a process parameter, said system comprising:

a computer configured to receive primary ~~and secondary~~ data corresponding to ~~at the~~ process parameter and configured to receive secondary data corresponding to the process parameter when the primary data indicates an alarm condition;

at least one sensor configured to measure the process parameter, said at least one sensor being coupled for communication of the primary data corresponding to the process parameter to said computer as a primary measurement of the process parameter; and

an interface configured for communicating the secondary data corresponding to the process parameter from said at least one sensor when the alarm condition is indicated, said interface being configured to provide the secondary data to said computer via a portable computer as a secondary measurement of the process parameter.

2. (Previously Presented) The system of claim 1 wherein said at least one sensor includes a primary sensor coupled for communication of the primary data corresponding to the process parameter to said computer, and a secondary sensor configured to provide the secondary data to said portable computer.

3. (Previously Presented) The system of claim 2 wherein said secondary sensor is a portable sensor, and said interface is a portable interface, said secondary sensor being configured for portable use with said interface and said portable computer.

4. (Previously Presented) The system of claim 1 additionally comprising the portable computer.

5. (Previously Presented) The system of claim 4 wherein the portable computer includes an analog to digital converter configured for receiving analog data from said interface and converting the analog data to digital data for transmission to said computer.

6. (Previously Presented) The system of claim 1 wherein said computer is configured to provide an alarm when the primary data and/or the secondary data communicated from said at least one sensor to said computer indicates that the process parameter is outside of a predetermined range.

7. (Previously Presented) The system of claim 1 wherein said interface is configured to communicate with said at least one sensor through at least one of a hard-wired, infra-red and wireless connection.

8. (Previously Presented) The system of claim 1 wherein said interface is a portable interface configured for portable use with the portable computer.

9. (Previously Presented) The system of claim 1 wherein said interface is configured to communicate identification data corresponding to said at least one sensor to the portable computer along with the secondary data corresponding to the process parameter.

10. (Previously Presented) The system of claim 1 wherein the process parameter corresponds to a temperature of a blood storage environment, and said at least one sensor includes a temperature sensor configured to measure the temperature of the blood storage environment.

11. (Previously Presented) The system of claim 10 wherein the at least one sensor includes a primary temperature sensor coupled for communication of the primary data corresponding to the temperature of the blood storage environment to said computer, and a secondary temperature sensor configured to provide the secondary data to the portable computer.

12. (Currently Amended) A system for monitoring a process parameter, said system comprising:

a computer configured to receive primary and secondary data corresponding to a process parameter and configured to receive secondary data corresponding to the process parameter when the primary data indicates an alarm condition;

a primary sensor configured to measure the process parameter as a primary measurement of the process parameter, said primary sensor being coupled for communication of the primary data corresponding to the process parameter to said computer;

a secondary sensor configured to measure the process parameter as a secondary measurement of the process parameter;

an interface configured to receive the secondary data corresponding to the process parameter from said secondary sensor; and

a portable computer configured to retrieve the secondary data corresponding to the process parameter from said interface when the alarm condition is indicated, said portable computer being configured to transmit the secondary data to the computer to verify the measurement of said primary sensor.

13. (Previously Presented) The system of claim 12 wherein said secondary sensor is a portable sensor, and said interface is a portable interface, said secondary sensor being configured for portable use with said interface and said portable computer.

14. (Previously Presented) The system of claim 12 wherein the portable computer includes an analog to digital converter configured for receiving analog data from said interface and converting the analog data to digital data for transmission to said computer.

15. (Previously Presented) The system of claim 12 wherein said computer is configured to provide an alarm when the primary and/or the secondary data communicated from said primary sensor to said computer indicates that the process parameter is outside of a predetermined range.

16. (Previously Presented) The system of claim 12 wherein said interface is a portable interface configured for portable use with said portable computer.

17. (Previously Presented) The system of claim 12 wherein said interface is configured to communicate identification data corresponding to said secondary sensor to the portable computer along with the secondary data corresponding to the process parameter.

18. (Previously Presented) The system of claim 12 wherein the process parameter corresponds to a temperature of a blood storage environment, and the primary sensor includes a primary temperature sensor coupled for communication of the primary data corresponding to the temperature of the blood storage environment to said computer, and said secondary sensor includes a secondary temperature sensor configured to provide the secondary data to said portable computer.

19. (Currently Amended) A method of verifying a measurement of a process parameter, said method comprising the steps of:

measuring a process parameter with at least one sensor;

transmitting primary data corresponding to the measured process parameter to a computer via a coupling between the at least one sensor and the computer;

indicating an alarm condition when the primary data indicates that the measured process parameter is outside of a predetermined range;

retrieving secondary data corresponding to the measured process parameter from the at least one sensor using an interface; and

transmitting the secondary data to the computer via a portable computer when the alarm condition is indicated.

20. (Previously Presented) The method of claim 19 wherein said measuring step includes measuring the process parameter with a first sensor and a second sensor, the first sensor being coupled to the computer, said retrieving step including retrieving the secondary data from the second sensor.

21. (Previously Presented) The method of claim 19 wherein the process parameter is measured to be outside of a predetermined range during said measuring step.

22. (Previously Presented) The method of claim 21 further comprising the step of providing an alarm indicating that the process parameter is outside of the predetermined range.

23. (Previously Presented) The method of claim 22 further comprising the step of comparing the secondary data transmitted to the computer with the primary data corresponding to the measured process parameter to verify if the process parameter is outside of the predetermined range.

24. (Previously Presented) The method of claim 19 wherein said step of transmitting the primary data includes transmitting identification data corresponding to the at least one sensor to the computer along with the primary data corresponding to the measured process parameter.

25. (Previously Presented) The method of claim 19 wherein said measuring step includes measuring a temperature of a blood storage environment with a primary temperature sensor and a secondary temperature sensor, said transmitting primary data step includes transmitting primary data corresponding to the measured temperature to the computer via a coupling between the primary temperature sensor and the computer, and said retrieving step includes retrieving secondary data corresponding to the measured temperature from the secondary temperature sensor using the interface.

26. (Currently Amended) A system for monitoring a temperature of a blood storage environment, said system comprising:

a computer configured to receive primary and secondary data corresponding to the temperature of the blood storage environment and configured to receive secondary data corresponding to the temperature of the blood storage environment when the primary data indicates an alarm condition;

a primary temperature sensor configured to measure the temperature of the blood storage environment, said primary temperature sensor being coupled for communication of the primary data corresponding to the temperature of the blood storage environment to said computer;

a secondary temperature sensor configured to measure the temperature of the blood storage environment;

an interface configured to receive the secondary data corresponding to the temperature of the blood storage environment from said secondary temperature sensor; and

a portable computer configured to retrieve the secondary data corresponding to the temperature of the blood storage environment from said interface, said portable computer being configured to transmit the secondary data to the computer when the alarm condition is indicated to verify the measurement of said primary temperature sensor.